



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

DETAILED PROJECT REPORT FOR FDR



Name of the Road :- REPAIR OF ROAD FROM TENDUNI TO HARDIYA SH -102 VIA ISAARI NH-30
HARDIYA

DISTRICT	:	BHOJPUR	
DIVISION	:	JAGDISHPUR	
BLOCK	:	JAGDISHPUR	
TOTAL LENGTH OF ROAD	:	18.000	KM
TOTAL COST OF INTIAL RECTIFICATION IN SURFACE RENEWAL	:	5.698	Lakh
GST @ 12% OF TOTAL COST	:	0.684	Lakh
LABOUR CESS @ 1 % OF TOTAL COST	:	0.057	Lakh
TOTAL COST OF CONST. IN LACS =	:	6.495	Lakh
TOTAL COST OF PROJECT	:	6.495	Lakh



Submitted by :

Executive Engineer

RWD Division-Jagdishpur

District- Bhojpur

निरीक्षण प्रतिवेदन

अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, आरा का पत्रांक-~~609~~ दिनांक-~~05.09.2022~~ के द्वारा दिये गये निर्देश के अनुपालन में कार्य प्रमंडल, जगदीशपुर के अंतर्गत वर्ष 2021-22 के बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त निम्नलिखित पथों के Temporary Restoration वाले कार्य स्थलों का निरीक्षण किया गया एवं उन पथों को प्राक्कलन के अनुसार कार्य कराया गया एवं कार्य संतोषप्रद पाया गया।

Sl No.	Name of Road	Length (In K.M)	Damage Length (In K.M)	Block
1	Restoration of Road from Tenduni to Haradia SH 102 Via Isarhi Nh-30 Haradia	18.00	0.281	Jagdishpur


कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल जगदीशपुर

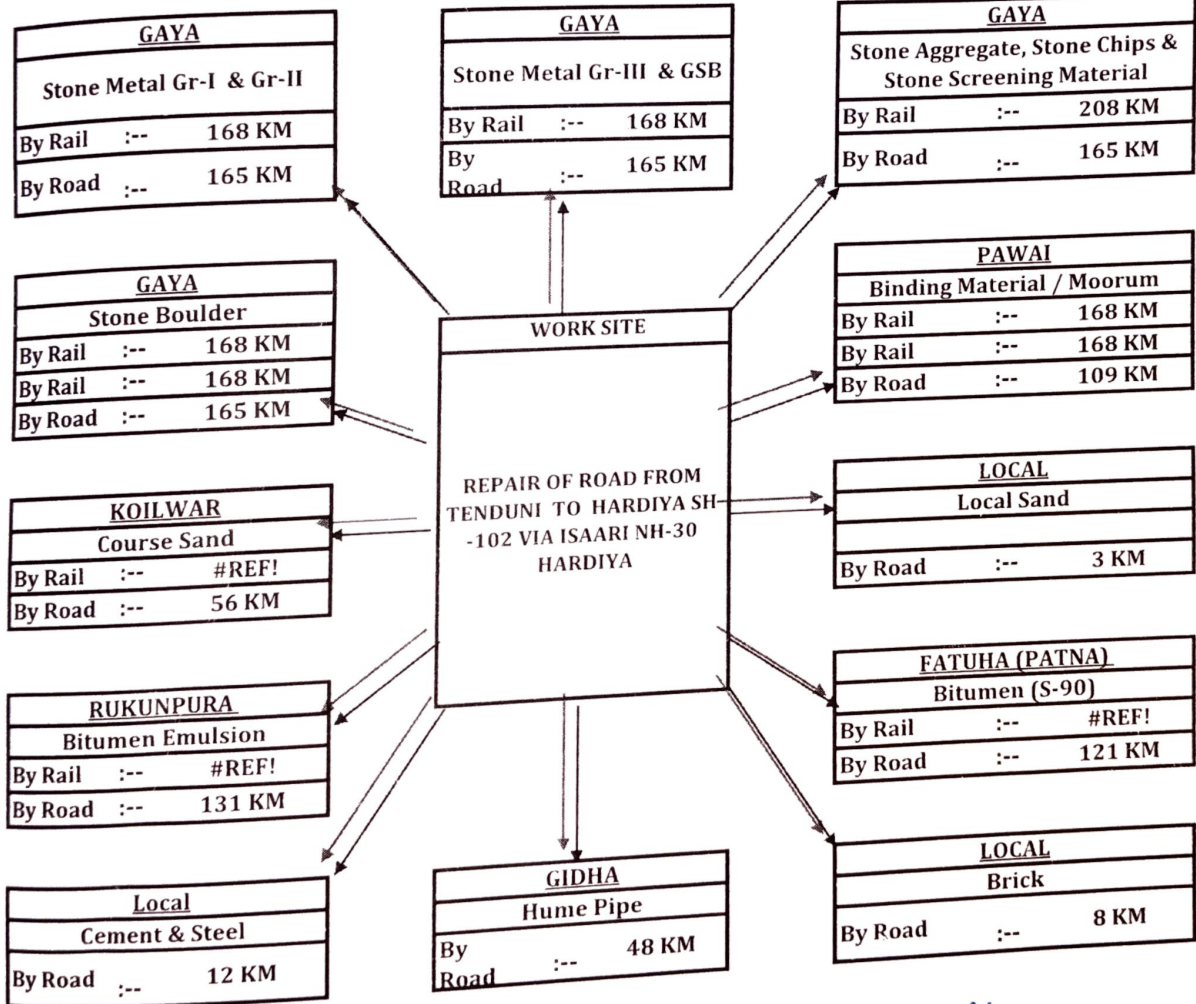

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल आरा

Figure -3

Quarry Map

Name of Road :-- REPAIR OF ROAD FROM TENDUNI TO HARDIYA SH -102 VIA ISAARI NH-30 HARDIYA
 Block :-- JAGDISHPUR
 District :-- BHOJPUR

Length of the Road:- 18.000 KM



* Subjected to Verification of Lead

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 12/11/21
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 E.E.

S.E.

FDR 2021-22

GENERAL ABSTRACT OF COST

Block:-- **JAGDISHPUR**

District:- **BHOJPUR**

Length of Road:-- **18.000 KM**

Name of Road:-- **REPAIR OF ROAD FROM TENDUNI TO HARDIYA SH -102 VIA ISAARI NH-30
HARDIYA**

SL. No.	Item of Work	Amount
A	TOTAL COST OF CONSTRUCTION :	6.495 Lacs
	TOTAL :	6.495 Lacs


12/11/21
Junior Engineer


12/11/2021
Asstt. Engineer


12/11/22
Executive Engineer

SE
RWD

GENERAL ABSTRACT OF COST

NAME OF ROAD :

REPAIR OF ROAD FROM TENDUNI TO HARDIYA SH -102 VIA
ISAARI NH-30 HARDIYA

DISTRICT

BHOJPUR

BLOCK

JAGDISHPUR

DIVISION

JAGDISHPUR

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL	
1	BRICK BATS	4.451 5.018
2	CROSS DRAINAGE	0.569 0.662
	SUB TOTAL OF INTIAL RECTIFICATION INDLUCDING SURFACE RENEWAL	5.02 5.698
	ADD 12% GST ON RECTIFICATION COST	0.904 0.684
	ADD 1% LABOUR CESS ON RECTIFICATION COST	0.050 0.057
	CONTINGENCY CHARGE @1%	0.057
	TOTAL COST OF CONST. IN LACS	5.974 6.495
	TOTAL COST OF PROJECT IN LACS =	5.974 6.495

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RWD

Technically sanctioned @ 5.974 Lacs
(Rupees Five Lacs Ninety seven
Thousand Four hundred) only

[Signature]
Superintending Engineer
Rural Works Department
Works Circle 434

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07.12.22

QUANTITY FOR NEW H.P. CULVERT

Proposed and New H.P. Culvert
Internal Diameter
No. of Rows

1.00 nos
600 mm
1 nos

SL No	SOR Item No	Description of Items	Unit	Qty	Rate (₹)	Amount (₹)
1	9.1 / 11.1	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104				
		H.W 0 x 3.900 x 1.477 x 1.500 = 0.00				
		Below Pipe 1 x 7.196 x 1.130 x 0.365 = 2.97				
		Abutment 1 x 1.500 x 1.130 x 1.500 = 2.54				
		5.51 cum		5.510	308.79	1,701.00
2	11.4 (II)	Providing M15 (PCC 1:2.5:5) as levelling course in foundation :- Providing PCC M 15 (1:2.5:5) concrete for plain concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203				
		H.W 0 x 3.900 x 1.477 x 0.150 = -0.00				
		Below Pipe 1 x 5.663 x 1.130 x 0.250 = 1.60				
		Abutment 1 x 0.910 x 1.130 x 0.250 = 0.26				
		1.86 cum		1.860	6620.56	12,314.00
3	12.5(I)	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 ans 1204 (M15) 20				
		H.W 0 x 3.600 x 0.864 x 2.780 = 0.00				
		Parapet 0 x 3.600 x 0.400 x 0.600 = 0.00				
		Less for pipe 0 x 0.7857 x 0.830 x 0.739 = -0.00				
		Abutment 2 x 0.9100 x 0.790 x 0.150 = 0.22				
		0.22 cum		0.220	7600.01	1,672.00
4	9.3 (B)	Providing and laying RCC pipe NP-3 for culverts on first class bedding of PCC M10 material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling concrete and masonry works in head walls and parapets as per clause 1106 600 mm dia				
		4 x 2.50 = 10.00				
		10.00 m		10.000	3,140.33	31,403.00
1	13.1	RCC M25 in Deck Slab :- Providing and laying reinforced cement concrete in superstructure (Deck slab M25) as per drawing and technical specifications Clauses 800, 1205.4, 1205.5				
		1 x 0.910 x 1.09 x 0.15 = 0.99 cum		0.990	8231.08	8,149.00
1	13.2	Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications				
		Deck Slab @ 105 Kg per Cum qty of Concrete 0.990 x 105,000 = 103.95				
		Abutment @ 105 Kg per Cum qty of Concrete 0.220 x 105,000 = 23.10				
		Total in Kg = 127.05 kg				
		Total in MT 127 ÷ 1000 = 0.1271 MT		0.1271	74347.72	9,603.00
5	0	Painting on Parapet Wall (Black & White Strips) Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701				
		Top 2 x 3.600 x 0.400 = 2.88				
		Side 4 x 3.600 x 0.600 = 8.64				
		Front 4 x 0.400 x 0.600 = 0.96				
		12.48 Sqm		12.480	105.57	1,318.00
COST OF ONE HP CULVERT Size (600mm x Single Row) Rs.						66,160.00

Cost of 1 H.P. CULVERT Size (600 mm) Rs. =

66,160.00

POT MEASUREMENT						
CH	No.	L	B	T	Area	Remarks
0-100	1	12.00	1.60	0.300	5.76	
	1	9.50	2.80	$(0.15+0.10)/2$	3.33	
	1	1.50	1.00	0.150	0.23	
100-200	1	15.00	1.80	$(0.6+0.30)/2$	12.15	
	1	3.00	1.50	0.300	1.35	
	1	15.00	1.50	$(0.2+0.10)/2$	3.38	
	1	12.00	1.50	$(0.7+0.2)/2$	8.10	
	1	5.00	1.40	0.150	1.05	
	1	35.00	1.68	$(0.8+0.60)/2$	41.16	
200-400	4	0.90	0.60	$(0.15+0.10)/2$	0.27	
	1	11.00	1.60	$(0.95+0.55)/2$	13.20	
	1	2.35	0.95	0.150	0.33	
	1	2.80	1.60	0.150	0.67	
	1	2.00	1.50	0.200	0.60	
	1	1.00	0.90	0.150	0.14	
	1	1.00	0.90	0.150	0.27	
1400-1500	2	1.00	0.90	$(0.15+0.10)/2$	0.45	
	4	1.00	0.90	$(0.85+0.65)/2$	84.38	
2300-2500	1	30.00	3.75	0.350	6.56	
	1	5.00	3.75	0.250	1.75	
	1	3.50	2.00	0.300	1.98	
2600-2700	1	3.00	2.20	0.150	0.11	
3100-3150	2	0.60	0.60	0.150	0.27	
3400-3500	1	3.00	0.60	0.350	1.84	
	1	7.50	0.70	0.150	0.15	
	1	1.00	1.00	0.150	0.15	
3600-3700pul	1	6.00	3.50	$(0.15+0.35)/2$	8.93	
4500-4600	4	1.50	1.00	$(0.20+0.10)/2$	0.90	
	1	0.90	0.90	0.150	0.12	
	1	0.90	0.90	0.100	0.08	
4600-4700	1	1.00	1.50	0.150	0.23	
	1	1.00	1.00	$(0.20+0.10)/2$	0.15	
4800-4900	1	2.00	0.90	0.200	0.36	
	1	1.50	1.00	0.150	0.23	
90-6200	1	19.00	3.75	$(0.90+0.550)/2$	51.66	
6800-6900	1	1.00	1.00	0.200	0.20	
7500-7600	1	4.00	1.30	0.350	1.82	
Total Area of Brick Bats					254.12	


 12/11/2021
 J.H.B.


 12/11/2021
 A.E.


 12/11/21

COMPARISON OF CARRIAGE COST OF WATER-BOUND MIXTURE
Name of Road:- REPAIR OF ROAD FROM TENDUNI TO HARDIYA SHI-102 VIA ISAARI NH-30 HARDIYA
Block :- JAGDISHPUR
District:- BHOPUR

LENGTH OF ROAD (M) 18000

Sl No	Item	Unit	Source	Pucka / Surface	Carriage Cost & Lead in Km	Katcha	Leasing & Unloading Cost	Carriage by Road	Carriage by Rail	Total	Lowest Rate
1	Stone Metal Gr-II/Via Road	Cum	GAYA (KARJARA)	8.00 4.59	Rs 3232.42	8.00 x 27.20 x 0 Km = Rs 0.00	215.00	3447.42	0.00	3447.42	3447.42
2	Stone Metal Gr-III / GSB Via Road	Cum	GAYA (KARJARA)	8.00 4.99	Rs 2973.31	8.00 x 27.20 x 0 Km = Rs 0.00	215.00	3188.31	0.00	3188.31	3188.31
3	Stone Aggregate / Chips Via Road	Cum	GAYA (KARJARA)	8.00 4.99	Rs 2973.31	8.00 x 27.20 x 0 Km = Rs 0.00	215.00	3188.31	0.00	3188.31	3188.31
4	Stone Boulder /Via Road	Cum	GAYA (KARJARA)	8.00 4.00	Rs 3709.20	8.00 x 27.20 x 0 Km = Rs 0.00	215.00	3924.20	0.00	3924.20	3924.20
5	Coarse Sand/Via Road	Cum	KOILWAR	8.00 6.00	Rs 839.25	8.00 x 27.20 x 0 Km = Rs 0.00	215.00	1054.25	0.00	1054.25	1054.25
6	Mooram/Via Road	Cum	PAWAI	8.00 6.00	Rs 1633.55	8.00 x 27.20 x 0 Km = Rs 0.00	215.00	1848.55	0.00	1848.55	1848.55
7	Bitumen /Via Road	MT	FATUHA (PATNA)	8.00 8.00	Rs 1360.04	8.00 x 27.20 x 0 Km = Rs 0.00	647.96	2008.00	0.00	2008.00	2008.00
8	Bitumen Emulsion /Via Road	MT	RUKUNPURA (BAKHTIYARPUR)	8.00 8.00	Rs 1472.44	8.00 x 27.20 x 0 Km = Rs 0.00	647.96	2120.40	0.00	2120.40	2120.40
9	Local Sand	Cum	Local	8.00 4.99	Rs 54.06	8.00 x 27.20 x 1 Km = Rs 43.61	215.00	312.67	0.00	312.67	312.70
10	brick	1000 Nos	Local	8.00 2.00	Rs 3597.68	8.00 x 27.20 x 1 Km = Rs 408.80	849.24	1277.72	0.00	1277.72	1277.70
11	Cement	MT	Local	8.00 8.00	Rs 134.88	8.00 x 27.20 x 0 Km = Rs 0.00	547.76	682.64	0.00	682.64	682.60
12	Steel	MT	Local	8.00 8.00	Rs 134.88	8.00 x 27.20 x 0 Km = Rs 0.00	570.77	705.65	0.00	705.65	705.70
13	Hume Pipe (1000 mm)	M	GIDHA	8.00 10.00	Rs 431.62	8.00 x 27.20 x 0 Km = Rs 0.00	117.83	549.45	0.00	549.45	549.50
14	Hume Pipe (600 mm)	M	GIDHA	8.00 25.00	Rs 172.65	8.00 x 27.20 x 0 Km = Rs 0.00	50.50	223.15	0.00	223.15	223.20
15	Hume Pipe (300 mm)	M	GIDHA	8.00 60.00	Rs 71.94	8.00 x 27.20 x 0 Km = Rs 0.00	50.50	122.44	0.00	122.44	122.40

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck /Tipper
For Surface Road	11.24	14.63
For Un Surface Road	13.52	17.60
For Katcha Road	27.20	35.41

[Signature]
 Junior Engineer
 R.W.D.

[Signature]
 12/11/2021
 Asstt. Engineer
 R.W.D.

[Signature]
 12/11/21
 Executive Engineer
 R.W.D.

781.10



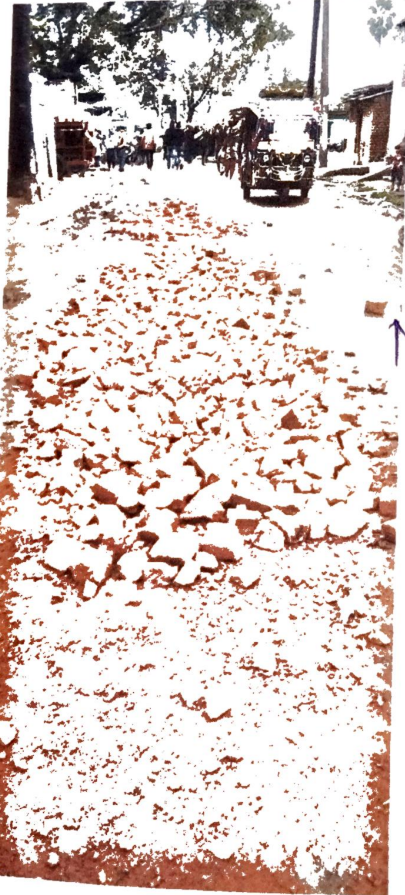
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ROAD NAME - TENDUNI TO HARDIA SH 102 VIA
 ISARDI N°130 - HARDIA



N-7



N-8



N-9

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N. 11



N. 12



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12/11/74

ROAD NAME - TENDUNI TO HARDTA SH 102 VIA
ISARHI R.H.30 - HARDTA

10.



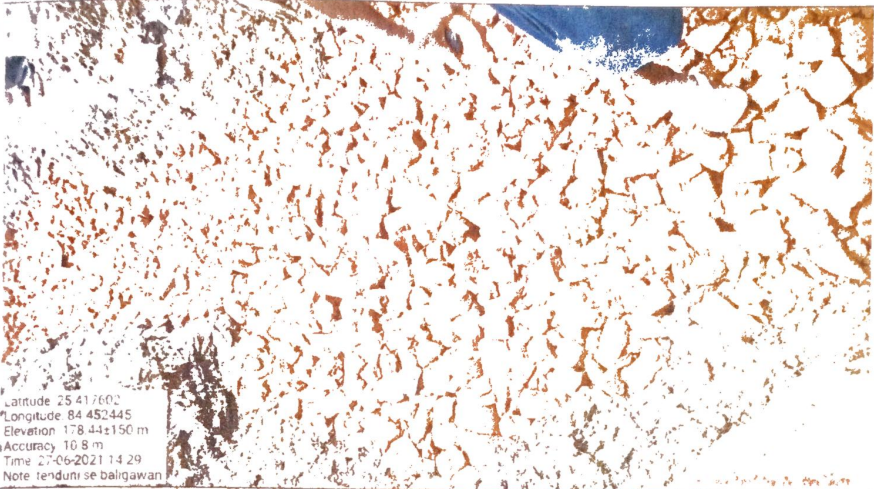
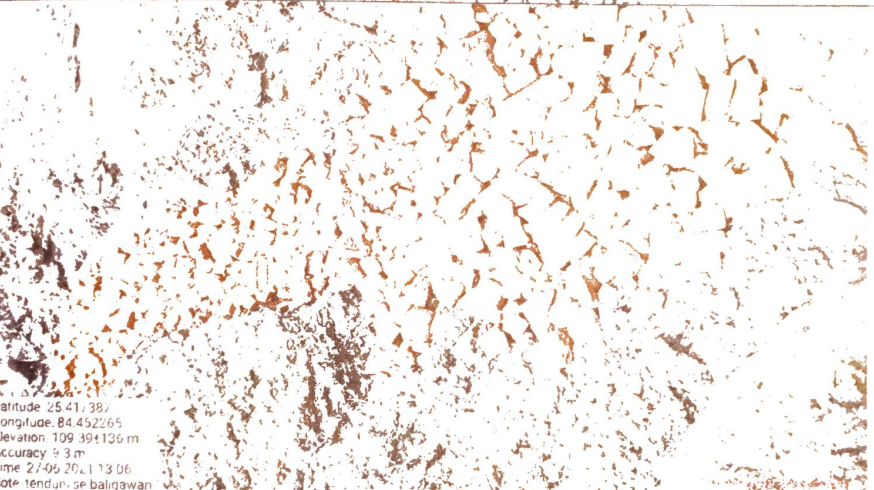
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12/11/2021
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ROAD NAME - TENDUNI TO HARDJA SHILO VIA
JSARHI MH30 - HARDJA

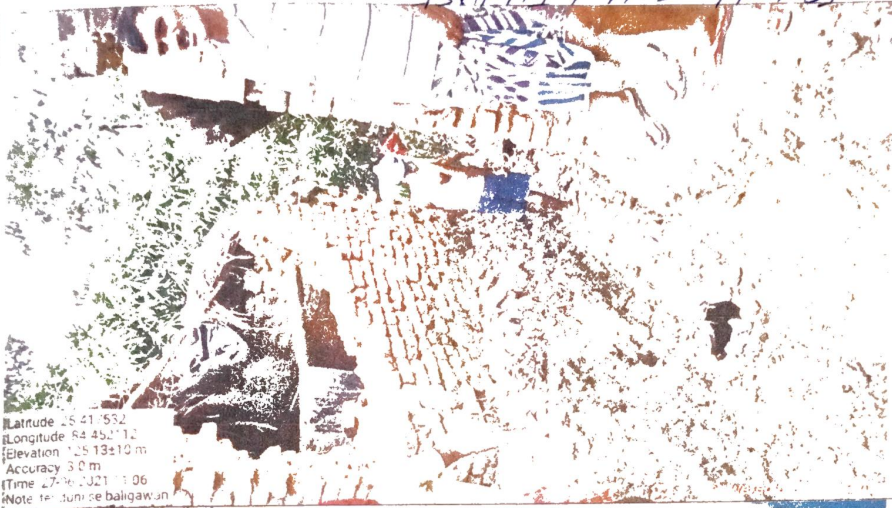
1.	 Latitude: 25.417602 Longitude: 84.452445 Elevation: 178.44±150 m Accuracy: 10.8 m Time: 27-06-2021 14:29 Note: tenduni se baligawan	N-1
2.	 Latitude: 25.417387 Longitude: 84.452265 Elevation: 109.39±136 m Accuracy: 3.3 m Time: 27-06-2021 13:06 Note: tenduni se baligawan	N-2
3.	 Latitude: 25.417513 Longitude: 84.452141 Elevation: 129.06±90 m Accuracy: 9.2 m Time: 27-06-2021 12:11 Note: tenduni se baligawan	N-3

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3.0

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ROAD NAME - TENDUNI TO HARDJA SH 102 VIA
TSARHI P/H-30 HARDJA



N-4



N-5



N-1

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